

### **Abstract of the Disclosure**

An adjustable pinhole for a laser scanning microscope. The adjustable pinhole includes first and second silicon apertures movable relative to each other, each of the silicon apertures having a rectangular mirror-inverted opening, the relative movement of the openings defining a pinhole of varying size. The relative movement can be in two directions, whereby the first and second silicon apertures are displaceable with respect to one another in a first direction and whereby at least one of the silicon apertures is displaceable in a second direction perpendicular to the first direction for adjustment to obtain an exact square form for the configuration of the pinhole.